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- NEWS 2 DEC 01 ChemPort single article sales feature unavailable
- NEWS 3 FEB 02 Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
- NEWS 4 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING
- NEWS 5 FEB 06 Patent sequence location (PSL) data added to USGENE
- NEWS 6 FEB 10 COMPENDEX reloaded and enhanced
- NEWS 7 FEB 11 WTEXTILES reloaded and enhanced
- NEWS 8 FEB 19 New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
- NEWS 9 FEB 19 Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
- NEWS 10 FEB 23 Several formats for image display and print options discontinued in USPATFULL and USPAT2
- NEWS 11 FEB 23 MEDLINE now offers more precise author group fields and 2009 MeSH terms
- NEWS 12 FEB 23 TOXCENTER updates mirror those of MEDLINE more precise author group fields and 2009 MeSH terms
- NEWS 13 FEB 23 Three million new patent records blast AEROSPACE into STN patent clusters
- NEWS 14 FEB 25 USGENE enhanced with patent family and legal status display data from INPADOCDB
- NEWS 15 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display formats
- NEWS 16 MAR 11 EPFULL backfile enhanced with additional full-text applications and grants
- NEWS 17 MAR 11 ESBIOBASE reloaded and enhanced
- NEWS 18 MAR 20 CAS databases on STN enhanced with new super role for nanomaterial substances
- NEWS 19 MAR 23 CA/CAplus enhanced with more than 250,000 patent equivalents from China
- NEWS 20 MAR 30 IMSPATENTS reloaded and enhanced
- NEWS 21 APR 03 CAS coverage of exemplified prophetic substances enhanced
- NEWS 22 APR 07 STN is raising the limits on saved answers
- NEWS 23 APR 24 CA/CAplus now has more comprehensive patent assignee information
- NEWS 24 APR 26 USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
- NEWS 25 APR 28 CAS patent authority coverage expanded
- NEWS 26 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
- NEWS 27 APR 28 Limits doubled for structure searching in CAS

REGISTRY

NEWS 28 MAY 08 STN Express, Version 8.4, now available

NEWS EXPRESS MAY 08 09 CURRENT WINDOWS VERSION IS V8.4, AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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FULL ESTIMATED COST

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FILE COVERS 1907 - 8 May 2009 VOL 150 ISS 20

FILE LAST UPDATED: 7 May 2009 (20090507/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate

=> S 664312-04-3
REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L2 2 L1

=> D L2

- L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
- AN 2004:675701 CAPLUS Full-text
- DN 141:178208
- ${\tt TI}$ Method for production of a B/N/C/Si ceramic from a borazine precursor for making heating
- IN Nesper, Reinhard; Haberecht, Joerg; Gruetzmacher, Hansjoerg
- PA Eidgenoessische Technische Hochschule Zuerich, Switz.
- SO PCT Int. Appl., 24 pp. CODEN: PIXXD2
- DT Patent
- LA German
- FAN.CNT 1

	PATENT NO.					KIND DATE				APPLICATION NO.					DATE			
ΡI	WO	WO 2004069768			_	A1 20040819				WO 2004-CH52				20040202				
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			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,
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		RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑT,	BE,
			BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	ΙT,	LU,
			MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GA,	GN,
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	EP 1590310				A1	20051102			EP 2004-707180				20040202					
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			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
	US 20060293164					A1	20061228			US 2005-544211				20050802				
PRAI CH 2003-149					Α	20030203												
WO 2004-CH52					M	20040202												

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L2 2

RE.CNT 2

- L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
- AN 2004:36188 CAPLUS Full-text
- DN 140:221686
- TI High-Yield Molecular Borazine Precursors for Si-B-N-C Ceramics
- AU Haberecht, Joerg; Krumeich, Frank; Gruetzmacher, Hansjoerg; Nesper, Reinhard
- CS Laboratory of Inorganic Chemistry, ETH Zurich, Zurich, CH-8093, Switz.
- SO Chemistry of Materials (2004), 16(3), 418-423 CODEN: CMATEX; ISSN: 0897-4756
- PB American Chemical Society
- DT Journal

RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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       1 664311-70-0/BI
E1
E2
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             664311-70-0P/BI
E3
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E4
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             664312-13-4/BI
E5
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E7
E8
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E9
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E11
         2 664312-74-7/BI
E12
=> S E3+ALL
RELATIONSHIP 'ALL' IGNORED
RELATIONSHIPS DO NOT EXIST FOR FIELD 'BI'
         2 664312-04-3+ALL/BI (1 TERM)
=> D L3
L3
    ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
AN
    2004:675701 CAPLUS Full-text
DN
    141:178208
   Method for production of a B/N/C/Si ceramic from a borazine precursor for
   making heating
    Nesper, Reinhard; Haberecht, Joerg; Gruetzmacher, Hansjoerg
IN
    Eidgenoessische Technische Hochschule Zuerich, Switz.
   PCT Int. Appl., 24 pp.
   CODEN: PIXXD2
DT
   Patent
LA German
FAN.CNT 1
               KIND DATE APPLICATION NO. DATE
   PATENT NO.
                    ----
                                    -----
   WO 2004069768 A1 20040819 WO 2004-CH52 20040202
PΤ
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          LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
       RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
          BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
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                                                         20050802
   US 20060293164
PRAI CH 2003-149
                     Α
                          20030203
   WO 2004-CH52
                    M
                          20040202
           THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
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ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L3
    ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
ΑN
    2004:675701 CAPLUS Full-text
    141:178208
DN
    Method for production of a B/N/C/Si ceramic from a borazine precursor for
ΤI
   making heating
    Nesper, Reinhard; Haberecht, Joerg; Gruetzmacher, Hansjoerg
ΙN
PA
    Eidgenoessische Technische Hochschule Zuerich, Switz.
    PCT Int. Appl., 24 pp.
    CODEN: PIXXD2
DT
    Patent
LA
   German
FAN.CNT 1
   WO 2004069768 A1 20040819 WO 2004 CVIC
       W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
          CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
          GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
          LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
       RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
          BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
          MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
          GQ, GW, ML, MR, NE, SN, TD, TG
                                      EP 2004-707180
                      A1
                         20051102
    EP 1590310
       R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
          IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
    US 20060293164 A1 20061228
                                     US 2005-544211 20050802
PRAI CH 2003-149 A
WO 2004-CH52 W
                      A
                           20030203
                           20040202
RE.CNT 2
           THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
           ALL CITATIONS AVAILABLE IN THE RE FORMAT
L3
    ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
    2004:36188 CAPLUS Full-text
ΑN
DN
    140:221686
    High-Yield Molecular Borazine Precursors for Si-B-N-C Ceramics
ΤI
    Haberecht, Joerg; Krumeich, Frank; Gruetzmacher, Hansjoerg; Nesper,
ΑU
    Reinhard
CS
    Laboratory of Inorganic Chemistry, ETH Zurich, Zurich, CH-8093, Switz.
   Chemistry of Materials (2004), 16(3), 418-423
    CODEN: CMATEX; ISSN: 0897-4756
PΒ
   American Chemical Society
DT Journal
   English
LA
            THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 52
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IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
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HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
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HITSTR ----- HIT RN, its text modification, its CA index name, and
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HITSEQ ----- HIT RN, its text modification, its CA index name, its
         structure diagram, plus NTE and SEQ fields
FHITSTR ---- First HIT RN, its text modification, its CA index name, and
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FHITSEQ ---- First HIT RN, its text modification, its CA index name, its
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L1 1 S 664312-04-3/RN

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L2 2 S L1

E 664312-04-3

L3 2 S E3+ALL

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FILE COVERS 1907 - 8 May 2009 VOL 150 ISS 20 FILE LAST UPDATED: 7 May 2009 (20090507/ED) REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

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=> S L3

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RELATIONSHIPS DO NOT EXIST FOR FIELD 'BI'

L4 2 664312-04-3+ALL/BI (1 TERM)

=> S 664312-04-3

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SINCE FILE TOTAL ENTRY SESSION 2.74 14.91

FULL ESTIMATED COST

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FILE LAST UPDATED: 7 May 2009 (20090507/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

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=> S L6

L7 2 L5

=> D L6 IBIB ABS HITSTR 1-2

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2004:675701 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 141:178208

TITLE: Method for production of a B/N/C/Si ceramic from a

borazine precursor for making heating

INVENTOR(S): Nesper, Reinhard; Haberecht, Joerg; Gruetzmacher,

Hansjoerg

PATENT ASSIGNEE(S): Eidgenoessische Technische Hochschule Zuerich, Switz.

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004069768 A1 20040819 WO 2004-CH52 20040202 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG 20051102 EP 2004-707180 Α1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK US 20060293164 20061228 US 2005-544211 A1 20050802 A 20030203 PRIORITY APPLN. INFO.: CH 2003-149 W 20040202 WO 2004-CH52

AB B-tris(silylvinyl)borazine is pyrolyzed as a borazine precursor for the production of a B/N/C/Si ceramic. A high-temperature ceramic is obtained by a further pyrolysis at higher temps. after a pre-pyrolysis, which is of high purity and essentially free of pores. The ceramic furthermore contains essentially no oxygen and is particularly suitable as a coating material and for the production of heating elements.

IT 664312-04-3P

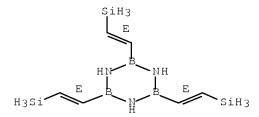
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)

(borazine precursor; method for production of a b/n/c/si ceramic from a borazine precursor, ceramics made by said method and use of ceramic made by said method)

RN 664312-04-3 CAPLUS

CN Borazine, 2,4,6-tris[(1E)-2-silylethenyl]- (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2004:36188 CAPLUS Full-text

DOCUMENT NUMBER: 140:221686

TITLE: High-Yield Molecular Borazine Precursors for Si-B-N-C

Ceramics

AUTHOR(S): Haberecht, Joerg; Krumeich, Frank; Gruetzmacher,

Hansjoerg; Nesper, Reinhard

CORPORATE SOURCE: Laboratory of Inorganic Chemistry, ETH Zurich, Zurich,

CH-8093, Switz.

SOURCE: Chemistry of Materials (2004), 16(3), 418-423

CODEN: CMATEX; ISSN: 0897-4756

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AΒ The synthesis of Si-B-N-C ceramic materials can be accomplished via two different routes using (E,E,E)-B-tris(trichlorosilylvinyl)borazine (2) as starting material. This silyl-functionalized ethynylborazine is obtained by Pt-catalyzed hydrosilylation of B, B', B''-tri-ethynylborazine (1) with HSiCl3 in quant. yield with a selectivity of 80% β -substituted product. Ammonolysis of 2 with methylamine leads to the soluble silazane polymer P3 which contains intact borazine rings connected by -CH:CH-Si-NMe linkages. In a second approach, the trichlorosilyl groups of 2 are hydrogenated to yield the B-tris(hydrosilylvinyl)borazine (4). With polymer P3 or 4, a highly durable Si-B-N-C ceramic is obtained after pyrolysis under inert atmospheric The composition SiBN1+xC2 of the ceramic material corresponds exactly to the backbone of the precursor mols. 2 or 4, and very compact materials are obtained in each case. The ceramic yield of .apprx.94% starting from the silane precursor 4 sets a new standard for this type of ceramics using the pyrolysis of a single site mol. precursor. Conductivity measurements show a semiconductor behavior of the ceramic at .apprx.102 (Ωm) -1 at room temperature The composition of the ceramic was characterized by laser-ablation ICP-MS, which was used for that purpose for the first time. The very satisfying results demonstrate the high potential of this direct solid sampling technique.

IT 664312-04-3

RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); FORM (Formation, nonpreparative); PROC (Process)

(high-yield synthesis of Si-B-N-C ceramic materials from mol. borazine precursors)

RN 664312-04-3 CAPLUS

CN Borazine, 2,4,6-tris[(1E)-2-silylethenyl]- (CA INDEX NAME)

Double bond geometry as shown.

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FILE REG

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 12.28 27.19

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
TRY SESSION

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ENTRY SESSION -1.64 -1.64

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STRUCTURE FILE UPDATES: 7 MAY 2009 HIGHEST RN 1144177-22-9 DICTIONARY FILE UPDATES: 7 MAY 2009 HIGHEST RN 1144177-22-9

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> S 664312-04-3 SSS FULL L9 1 664312-04-3 (664312-04-3/RN)

=> D

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 664312-04-3 REGISTRY

ED Entered STN: 18 Mar 2004

CN Borazine, 2,4,6-tris[(1E)-2-silylethenyl]- (CA INDEX NAME)

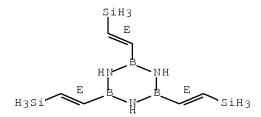
FS STEREOSEARCH

MF C6 H18 B3 N3 Si3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

(FILE 'HOME' ENTERED AT 21:17:00 ON 08 MAY 2009)

FILE 'CAPLUS' ENTERED AT 21:17:14 ON 08 MAY 2009 S 664312-04-3/REG#

FILE 'REGISTRY' ENTERED AT 21:17:22 ON 08 MAY 2009
L1 1 SEA FILE=REGISTRY SPE=ON PLU=ON 664312-04-3/RN

FILE 'CAPLUS' ENTERED AT 21:17:22 ON 08 MAY 2009

L2 2 SEA FILE=CAPLUS SPE=ON PLU=ON L1

D L2

D L2 2

E 664312-04-3

L3 2 SEA FILE=CAPLUS SPE=ON PLU=ON 664312-04-3+ALL/BI

D L3

D L3 1-2

FILE 'CAPLUS' ENTERED AT 21:19:06 ON 08 MAY 2009

L4 2 SEA FILE=CAPLUS SPE=ON PLU=ON 664312-04-3+ALL/BI S 664312-04-3/REG#

FILE 'REGISTRY' ENTERED AT 21:19:34 ON 08 MAY 2009

L5 1 SEA FILE=REGISTRY SPE=ON PLU=ON 664312-04-3/RN

FILE 'CAPLUS' ENTERED AT 21:19:34 ON 08 MAY 2009

L6 2 SEA FILE=CAPLUS SPE=ON PLU=ON L5

FILE 'CAPLUS' ENTERED AT 21:19:41 ON 08 MAY 2009

2 SEA FILE=CAPLUS SPE=ON PLU=ON L5

D L6 IBIB ABS HITSTR 1-2

FILE 'REGISTRY' ENTERED AT 21:20:41 ON 08 MAY 2009

L8 1 SEA FILE=REGISTRY SPE=ON PLU=ON 664312-04-3

L9 1 SEA FILE=REGISTRY SPE=ON PLU=ON 664312-04-3

D

L7

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST 3.01 30.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -1.64

STN INTERNATIONAL LOGOFF AT 21:21:42 ON 08 MAY 2009